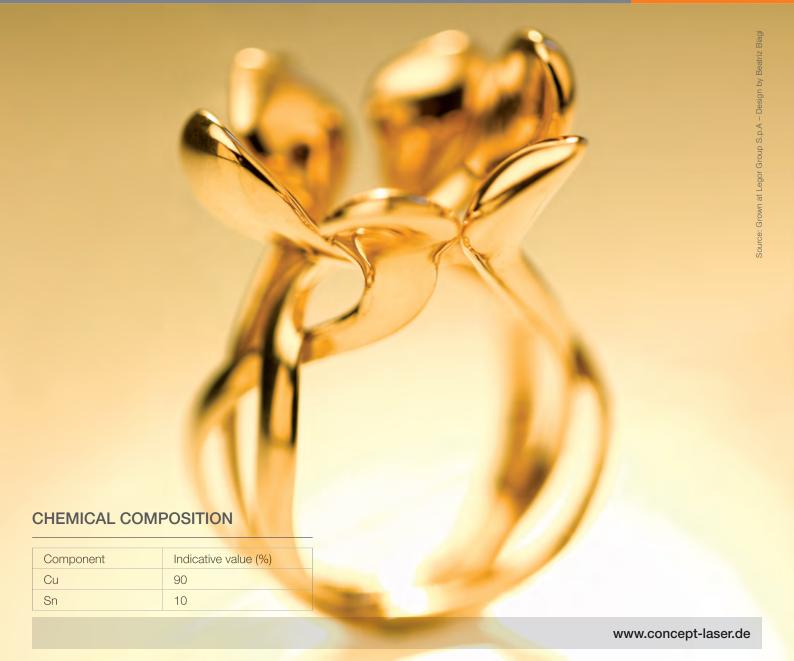


# **CL 80CU** Bronze alloy

Bronze alloy in powder form

The bronze alloy CL 80CU is a material whose melting properties make it outstandingly suited to generative processing.

29 **Cu** 63,54



#### AREAS OF APPLICATION

Fabrication of original or master models in the fields of jewellery and artistically crafted sculptures. The material is very easy to polish and has a higher hardness than silver alloys.

#### **TECHNICAL DATA**

Yield Point R <sub>e</sub> <sup>1</sup>	approx. 400 N/mm <sup>2</sup>
Tensile Strength R <sub>m</sub> <sup>1</sup>	approx. 500 N/mm <sup>2</sup>
Elongation A <sup>1</sup>	approx. 5 %
Young's modulus <sup>1</sup>	approx. 120 · 10 N/mm²
Hardness HV 0.2	171 ± 7

<sup>&</sup>lt;sup>1</sup> Tensile test in accordance with DIN EN 10002 at room temperature.

# CL 80CU

#### MICROSCOPIC IMAGES

Microsection of a test piece (x 100 magnification)

Microscopic image of a polished ring (x 20 magnification)





#### REWORKING

Before polishing, it is recommended if necessary that the surface be compacted by means of shot peening.

#### **MICROSTRUCTURE**

Components made from the bronze alloy CL 80CU display, after being built up with the metal laser melting method LaserCUSING®, a homogeneous, dense structure.

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